

REMARKS

Reconsideration of this application, in view of the foregoing amendments and the following remarks, is respectfully requested.

Claims 24-37 were pending for consideration in this application. By the foregoing amendment, Applicant has amended Claims 24, 28 and 33. Claims 2, 5-7, 11, 16 and 17 are withdrawn from consideration in response to the species restriction. Claim 24-37 are now pending.

Claims 24, 25, 28-33, 35, and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Briancon et al. (US 7,163,155) in view of Hayashi et al. (US 2004/0102176).

Applicant's claimed invention relates to wirelessly transferring signals from one integrated circuit to another integrated circuit located on the same board or in close proximity. The Examiner seems to be overlooking or ignoring the explicit recitations of the Claims. For example, base Claim 24, as amended for even more clarity, recites: "...a multiplicity of semiconductor chips for processing signal groups, wherein a plurality of semiconductor chips exchange signal groups with each other using wireless techniques, the multiplicity of semiconductor chips including: a first semiconductor chip on the circuit board operable to wirelessly receive a signal group from a second semiconductor chip on the circuit board...". As with the previously used Kunz reference (US 2005/0003781 A1), neither Briancon nor Hayashi in any combination have any suggestions for "a first semiconductor chip on the circuit board operable to wirelessly receive a signal group from a second semiconductor chip on the circuit board" as recited in Claim 24.

The Examiner seems to be equating Briancon's antenna farm chip 11 (Figure 1) and switching chip 21 (Figure 2) with applicant's two recited semiconductor chips. However, Briancon clearly teaches these two chips are hardwired together. "The web

34 includes conductive terminals or contacts 35 which mate with the contacts 15 on the front surface 13 of the first semiconductor chip 11. The contacts 35 on web 34 are thereby in ohmic contact with the contact pads 15 of the front 13 of the first semiconductor chip. By combining the two chips 22, 21 in the package 31, three layers of antenna, switch and switch control algorithms are provided.” (Col 4, lines 13-20) The examiner also points to Figures 12 and 13. “FIG. 12 is a diagram showing a wireless transmit/receive unit (WTRU) 301 using an antenna farm. ... These exemplary types of wireless environments include, but are not limited to, wireless local area networks (WLANs) and public land mobile networks. A “base station” includes but is not limited to a base station, Node B, site controller, access point or other interfacing device in a wireless environment.” (Col 8, line 36 et al) “FIG. 13 is a diagram showing a configuration for a WTRU 340 in which multiple ICs 341-346 are provided to facilitate MIMO communications.” (Col 10, line 7 et al)

While Applicant agrees Briancon teaches a wireless transmit receive unit for wireless communication with a base station, for example, Applicant finds no teaching or suggestion in Briancon of “a first semiconductor chip on the circuit board operable to wirelessly receive a signal group from a second semiconductor chip on the circuit board” as recited in Applicant’s claim 24. Base Claim 24 is therefore allowable over both references in any combination.

Base Claim 28 as amended for further clarity requires and positively recites: “...modulating and transmitting a wireless signal by a first semiconductor chip located on the board, ... receiving and demodulating the wireless signal by a second semiconductor chip located on the same board to reproduce the logic signal group for use by the second semiconductor chip.” As discussed above, neither Briancon nor Hayashi in any combination teach or suggest wireless communication between two semiconductor chips located on the same board. Base Claim 28 is therefore allowable over both references in any combination.

Base Claim 33 requires and positively recites: "...a first semiconductor chip comprising ...a wireless transmitting unit ...and a second semiconductor chip located in close proximity to the first semiconductor chip, the second semiconductor chip comprising ... a wireless receiving unit ... coupled to an antenna within the second semiconductor chip and operable to receive the signal group from the transmitting unit and to provide the signal group to the second processing unit." As discussed above, the only wireless transmission and reception taught or suggested in Briancon is between wireless transmit/receive units and remote nodes such a base station or "other interfacing device in a wireless environment. (Col. 8, lines 36-47) Base Claim 33 is therefore allowable over both references in any combination.

Dependent Claims 25-27, 29-32 and 34-37 depend directly or ultimately on allowable base claims and are therefore allowable for this reason and by virtue of their further distinctive recitations.

Applicant thanks the Examiner for indicating Claims 26, 27, 34 and 37 would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. However, as discussed above, Applicant believes these Claims are allowable as written.

Applicant believes this application and the claims herein to be in a condition for allowance and respectfully requests that the Examiner allow this application to pass to the issue branch.

Applicant believes that no additional fee is due at this time; however, please charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 relating to this matter to Deposit Account Number 20-0668, for Texas Instruments Incorporated.

Should the Examiner have further inquiry concerning these matters, please contact the below named attorney for Applicant.

Respectfully submitted,

/Gerald E. Laws/

Gerald E. Laws
Attorney for Applicant
Reg. No. 39268
713-937-8823

Texas Instruments Incorporated
P.O. Box 655474, MS 3999
Dallas, TX 75265
(972) 917-5287